

Application No.
Amendment Dated
Reply to Office Action of
NEW SHEET

10/531,844
October 31, 2006
October 12, 2006

- 1/2 -

Ecoli ---MADYQSKNVVIGLGLTGLSCVDFFLARGVTPRVMDTRMTPP---GLDKLFEAVERH
Efaecalis MKKITTYQNKKVVLVGLAKSGVSAAKLLHEL GALVTVND AKQFDQNPDAQD LLLTGLIRV
Paeruginosa --MSLIASDHFRIVVGLGKSGMSLVRYLARRGLPFAVVD TRENPFELATLRAQYPOVEVR
Saureus MLNYTGLENKNVLVVGLAKSGYEAAKLLSKLGANVTVNDGKDLSQDAHAKDLESMGISVV

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Ecoli TGSINDEWLMAA-DLIVASPGIALAHPSLSAAADAGIEIVGDIELFCREAAPIVAITGS
Efaecalis TGGHPIELLDEEFELIVKNPGIYTNPLVAEALTRKIPITTEVELAGQIAECPIVIGITG
Paeruginosa CGELDAEFLCSA-RELYVSPGLSLRTPALVQAAAKGVRIISGDIDLFAREAAPIVAITGS
Saureus SGSHPLTLDDNN-PIIVKNPGIPYTVSIIIDEAVKRLKILTEVELSYLISEAPIIAVTGT

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Ecoli NGKSTVTTLVGEMAKAAGVNV--GVGGNIGLPA--LMLLDECELYVLELSSFQLETTSS
Efaecalis NGKTTTTTIGLLLNADRTAGEARLAGNIGFPASTVAQEATAKDDLVMELSSFQLMGIET
Paeruginosa NAKSTVTTLVGEMAVAADKRV--AVGGNLGTPA--LDLLADDIELYVLELSSFQLETCDR
Saureus NGKTTVTS LIGDMFKKSRLTG--RLSGNIGYVASKVAQEVKPTDYLVTLSFQLLGIEK

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Ecoli LQAVAATINVTEDHMDRYPFGLQQYRAAKLRIYENAKVCVVNADDAITMPIRG-ADERC
Efaecalis FHPQIAVITNIFEALDYH-GSRKEYVAAKWAIQKNMTAEDTLILNWNQVELQTLAKTTA
Paeruginosa LNAEVATVNLVSEDHMDRY-DGMADYHLAKHRIFRGARQVVVNRAADALTAFLIA-DTVPC
Saureus YKPHIATITNIYSAHLDYH-ENLENYQNAKKQIYKNQTEEDYLICNYHQROVIE-SEELK

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Ecoli VSFGVN---MGDYHLNHQQGETWLRVKGEKVLNVKEMKLSGQHNYTNALAAALADAAGL
Efaecalis ANVLPFSTKEAVEGAYLLDG--KLYFNEEYIMPADELGI PGSHNENALAAICVPRKKNV
Paeruginosa WSFGLNKPDKAFGLIEEDGQKWLAFOFDKLLPVGELKIRGAHNYSNALAALGHAUGL
Saureus AKTLYFSTQQEV DGIYIKDG--FIVYKGVRIINTEDLVLPGEHNLENI LA AVLACILAGV

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Ecoli PRASSLKALTFTGLPHRFEVVLEHNGVRWINDSKATNVGSTEALN--GLHVDGTLHLL
Efaecalis SNAQIKQSLTNFSGVP HRTQFVGEVQQRFFYNDSKATNFLATEMALS--GFDNQKLLLLA
Paeruginosa PFDAMLGAKAFSGLAHRCQWVRERQGVSYDDSKATNVGAALAAIEGLGADIDGKLVLL
Saureus PIKAIIDS LTFSGIEHRLQYVGTNRTNKYYNDSKATNTLATQFALN--SFN-QPIIWL

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Ecoli LGGDGKSAFSP LARYLNGDNVRLYCFGRGQAQLAALR--FEVAEQT--ETMEQAMRLLA
Efaecalis GGLD-RGNBFEDELVPALLG-LKAI VLFGETKKKLAEAACKPN IETILFAENVQTAVTIAF
Paeruginosa AGGDGKGAJFHD LREPVARFCRAVVLGRDAGLIAQAL--GNAVPLVRVATLDEAVRQAA
Saureus GGLD-RGNBFEDELIPY MEN-VRAMVVFQGTAKAKFAKL GNS-QGKSVIEANNVEDAVOKVQ

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(Figure 8)

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Ecoli PRVQFGDMVLLSPACASLDQFKNFQRGNEFARLAKELG---- (SEQ ID NO:1)
Efaecalis DYSEKDDTILLSPACASWDQYPNFVVRGEAFMQAVQQLKESEM (SEQ ID NO:2)
Paeruginosa ELAREGDAVLLSPACASLDMFKNFEEERGRLEFAKAVEELA---- (SEQ ID NO:3)
Saureus DIIEFPNDVVLLSPACASWDQYSTFEERGEKFIERFRAHLPSY- (SEQ ID NO:4)

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(Figure 8)